

Amendments to the Claims:

1. (Cancelled)

2. (Currently Amended) The medical measuring system as claimed in ~~claim 11~~claim 24, wherein the at least one mobile measuring apparatus includes at least one of an acoustic indicator and an optical indicator which ~~signals~~indicates the quality of the at least one physiological data measurement signal to a wearer of the
5 mobile measuring apparatus.

3. (Cancelled)

4. (Currently Amended) The medical measuring system as claimed in ~~claim 2~~claim 13, wherein the measuring apparatus includes an optical indicator which includes:

a light with a plurality of colors, each color being associated with one
5 of a plurality of predetermined ranges of the at least one physiological data ~~measurement~~ signal quality to indicate when the quality of the at least one physiological data measurement signal is in ~~[[each]]~~ the corresponding~~[[ly]]~~ one of the plurality of predetermined ranges.

5. (Cancelled)

6. (Currently Amended) The medical measuring system as claimed in ~~claim 11~~claim 25, wherein the at least one mobile measuring apparatus signals the quality of the at least one physiological data measurement signal automatically.

7. (Currently Amended) The medical measuring system as claimed in ~~claim 6~~claim 13, wherein the ~~at least one mobile~~ measuring apparatus ~~signals~~indicates the quality of the ~~at least one~~ physiological data ~~measurement~~ signal ~~when in response to one of the sensors being~~ [[is]] placed on another measuring site of [[a]]
5 the patient wearing the ~~mobile~~ measuring apparatus.

8. (Currently Amended) The medical measuring system as claimed in ~~claim 11~~ claim 13, wherein the ~~at least one mobile-measuring apparatus signals~~ indicates the quality of the ~~at least one physiological data measurement-signal~~ in response to a ~~substantial-preselected~~ change in the quality of the ~~at least one~~ physiological data ~~measurement-signal~~ from the sensor.

9. (Currently Amended) The medical measuring system as claimed in ~~claim 11~~ claim 24, wherein the at least one measuring apparatus signals the quality of the at least one physiological data measurement signal on demand.

10. (Currently Amended) The medical measuring system as claimed in ~~claim 11~~ claim 13, wherein the ~~at least one mobile-measuring apparatus evaluates the at least one physiological data measurement-signal indicative of the physiological data to be communicated wirelessly and signals~~ indicates the quality of the ~~at least one physiological data measurement-signal~~ in response to the determined quality of the ~~at least one physiological data measurement-signal indicative of the physiological data to be communicated wirelessly by the mobile-measuring apparatus falling below a predetermined signal quality.~~

11. (Cancelled)

12. (Currently Amended) The medical measuring system as claimed in ~~claim 11~~ claim 13, wherein the at least one sensor includes a pulsoximeter, an ECG recorder or ultrasound measuring head.

13. (Currently Amended) A medical measuring system comprising:
one or more patient body mounted sensors which contact a portion of a patient to measure physiological patient data and generate physiological patient data signals indicative of the measured physiological patient data;

5 a patient body mounted measuring apparatus which—worn by the
patient, the patient body mounted measuring apparatus receives the physiological
patient data signals from the one or more sensors, evaluates the measured
physiological patient data signals to determine a quality of the physiological patient
data signals, and ~~signals—indicates~~ the quality of the physiological patient data signals
10 to the patient; and

 a measurement display apparatus detached from the patient that
displays physiological patient data generated by the one or more sensors, the
physiological patient data being wirelessly transferred from the ~~at least one—patient~~
body mounted measuring apparatus to the measurement display apparatus.

14. (Currently Amended) The medical measuring ~~device—system~~ of
claim 13, wherein the ~~[[the]]~~ measuring apparatus ~~signals—indicates~~ the quality of the
physiological patient data signals to the patient in response to the determined quality
of the physiological patient data signals being below a threshold and generates at least
5 one of:

 an acoustic signal to ~~a—wearer of the patient to which~~ the measuring
apparatus is mounted, and

 an optical signal via a light mounted on the measuring apparatus.

15-16. (Cancelled)

17. (Currently Amended) The medical measuring ~~device—system~~ of
~~claim 16—claim 13~~, wherein the ~~means for signaling the quality generates at least one~~
~~of an acoustic signal and an optical signal—measuring apparatus does not display the~~
physiological patient data.

18. (Cancelled)

19. (Currently Amended) The medical measuring ~~device—system~~ of
~~claim 16—claim 13~~, ~~in combination with a measurement display device at the remote~~
~~site which measurement display device receives the wirelessly transmitted medical~~

data and displays at least a portion of the received medical data wherein the
5 measuring apparatus compares the determined quality with a preselected quality level
and transmits the patient data wirelessly to the measurement apparatus in response to
the determined quality meeting or exceeding the preselected level.

20. (Currently Amended) The medical measuring ~~device-system~~ of
claim ~~16~~ claim 13, wherein the quality is ~~signaled~~ indicated in a manner which is
humanly perceivable to the patient locally adjacent the ~~medical-measurement~~
measuring apparatus, wherein the quality is not indicated at the measurement display
5 apparatus.

21. (Currently Amended) The medical measuring ~~device-system~~ of
claim ~~16~~ claim 13, wherein the ~~determining-means-measuring apparatus~~ evaluates the
measured medical data signals for one or more of ~~a transmission level~~, an interference
level[[,]] and a signal form to determine the quality of the ~~measured-medical~~
5 physiological patient data signals generated by the sensors as received at the
measuring apparatus.

22. (Currently Amended) The medical measuring system of claim 13,
wherein the measuring apparatus evaluates the measured physiological patient data
signals received from the sensors based on at least one of a transmission level, an
interference level, and a form of the physiological patient data signals from the one or
5 more sensors.

23. (Currently Amended) The medical measuring system ~~as-claimed~~
~~in claim 11~~ of claim 13, wherein the ~~mobile-measuring apparatus communicates the~~
~~physiological data to the data device and~~ evaluates the ~~at least one~~ physiological data
measurement signal from the one or more sensors for a change in [[a]] the quality of
5 the physiological patient data ~~measurement~~ signal.

24. (Currently Amended) [[The]] A medical measuring system as
~~claimed in claim 11, comprising:~~

a data device including a display screen for displaying at least one of medical measurement values and graphs;

5 at least one sensor which generates at least one physiological data measurement signal indicative of physiological data of a patient; and

at least one mobile measuring apparatus which (1) receives the at least one physiological data measurement signal from the at least one sensor, (2) evaluates the at least one physiological data measurement signal to determine a quality of the at
10 least one physiological data measurement signal and indicates the quality of the at least one physiological data measurement signal generated by the at least one sensor, and (3) communicates the at least one data measurement signal wirelessly to the data device, wherein the mobile measuring apparatus evaluates a signal form of the at least one physiological data measurement signal.

25. (Currently Amended) [[The]] A medical measuring system as claimed in claim 11, comprising:

a data device including a display screen for displaying at least one of medical measurement values and graphs;

5 at least one sensor which generates at least one physiological data measurement signal indicative of physiological data of a patient; and

at least one mobile measuring apparatus which (1) receives the at least one physiological data measurement signal from the at least one sensor, (2) evaluates the at least one physiological data measurement signal to determine a quality of the at
10 least one physiological data measurement signal and indicates the quality of the at least one physiological data measurement signal generated by the at least one sensor, and (3) communicates the at least one data measurement signal wirelessly to the data device, wherein the mobile measuring apparatus evaluates the physiological data measurement signal based on an interference level.

26. (New) The medical measuring system as claimed in claim 24, wherein the at least one sensor and the at least one mobile measuring apparatus are worn by the patient and the data device is disposed remote from the patient, the wireless communication between the at least one mobile measuring apparatus and the

data device enabling the patient to move freely without being tethered to the data device.

27. (New) The medical measuring system as claimed in claim 25, wherein the at least one sensor and the at least one mobile measuring apparatus are worn by the patient and the data device is disposed remote from the patient, the wireless communication between the at least one mobile measuring apparatus and the data device enabling the patient to move freely without being tethered to the data device.